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German Collection of Microorganisms and Cell Cultures

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DSMZ - Deutsche Sammlung von Mikroorganismen und Zellkulturen GmbH (German Collection of Microorganisms and Cell Cultures) is an independent, non-profit organization dedicated to the acquisition, characterization and identification, preservation and distribution of Bacteria, Archaea, fungi, plasmids, phages, human and animal cell lines, plant cell cultures and plant viruses.

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Research and Training at a Culture Collection financed by the EC

As a Large Scale Facility recognized by European Commission within the Framework of the "Human Potential Programme - Access to Infrastructures" the DSMZ offers facilities for research and/or training. Grants are available to scientists from member states of the European Union (excluding Germany) and Associated States.

More information [here](#).

New: The most comprehensive myxobacteria (Myxococcales) collection world-wide.

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YT

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Cell line	YT
Cell type	human T/NK cell leukemia
DSMZ No	ACC 434
Origin	established from the pericardial fluid of a 15-year-old man with lymphoblastic leukemia (ALL) at relapse (with accompanying thymoma were described as: (i) showing NK activity and ADCC (antigen-dependent cell-mediated cytotoxicity), (ii) having their T cell receptor (germline configuration, and (iii) expressing no TCR proteins (all CD56+, CD57-)
References	Yodoi et al., J. Immunol. 134: 1623-1630 (1985); Yoneda et al., (1992); Kanegane et al., Leukemia Lymphoma 29: 491-498 (1998); Drexler & Matsuo, Leukemia 14: 777-782 (2000).
Depositor	Dr. H. G. Drexler, DSMZ, Braunschweig, Germany

DSMZ Cell Culture Data

Morphology	round to polygonal cells growing singly or in clumps in suspension
Medium	80% Iscove's MDM + 20% FBS
Subculture	split saturated culture 1:2 every second day; start culture in a seed out at ca. $0.8-1.5 \times 10^6$ cells/ml, initially after thawing be reduced down to ca. 20-50% during the first 1-2 weeks (during period, cells should not be diluted, medium may be exchanged with centrifugation); in their vigorous growth phase, maintain at 0.2 cells/ml; maximal density at ca. $0.6-0.8 \times 10^6$ cells/ml
Incubation	at 37 °C with 5% CO ₂
Doubling time	doubling time of ca. 40-50 hours
Harvest	cell harvest of ca. 0.6×10^6 cells/ml
Storage	frozen with 70% medium, 20% FBS, 10% DMSO at about 4×10^6 cells.

DSMZ Scientific Data

Mycoplasma	negative in DAPI, microbiological culture, RNA hybridization, PC
Immunology	CD2-, CD3-, CD4-, CD5-, CD6-, CD7+, CD8-, CD13-, CD19-, CD25+, C TCRalpha/beta-, TCRgamma/delta-
Fingerprint	multiplex PCR of minisatellite markers revealed a unique DNA profile
Species	confirmed as human with IEF of AST, LDH, NP
Cytogenetics	human flat-modulated near-tetraploid karyotype with 12% polyploidy; -9, -15, -19, +6-8mar, der(X)t(X;7)(q25;q21), der(1)dup(1)(q12.2q22)t(1;17)(q3?1;q1?2), der(4)t(1;4)(q32.2;q3
Viruses	ELISA: reverse transcriptase negative; PCR: EBV+, HBV-, HCV-, HHV-1/II-

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Prices

Dept. of Human and Animal Cell Lines